



#357

IMP-J

HOURLY AVERAGED MAGNETIC FIELD VECTORS

73-078A-01B



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73-078A-01B

This data set has been restored. Originally there were two tapes, one of which was created on an IBM 360 computer, 9 track, 1600 BPI, written in binary.

The other a VAX created, 6250 BPI, 9 track, with 36 files, written in ASCII, was converted to EBCDIC. This tape have not been assigned a DD number. A compilation of another 4 tapes, with a total of another 36 files, submitted for the OMNI tape updating, was added to this tape. All of these hourly data are available from the OMNI tape and the user should be encouraged to used the OMNI tape in place of these data. The DR and DS numbers along with their corresponding D number and time span are as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR-003425	DS-003425	DD-025184	1	01/02/74 - 05/20/75 (BIN)
DR-006196	DS-006196		72	04/09/86 - 07/01/94 (EBC)

An additional tape is added to this data set, the original is 6250 BPI, 9 track, written in ASCII. The DC is 3480 cartridge. The DD and DC number and time span is as follows:

DD#	DC#	FILES	TIME SPAN
DD-108653	DC-032784	19	01/01/95 - 07/31/96

TAPE FORMAT

This binary tape was created on an IBM/360 computer with the characteristics: RECFM=VBS, LRECL=72, BLKSIZE=1444, DEN=3. The tape is unlabelled. The data words of each record are as follows:

1. I*4 Year (74,75)
2. I*4 Day (Jan 1=Day 0)
3. I*4 Hour (0,1,...23)
4. I*4 Spacecraft (43=IMPI,50=IMP J)
5. I*4 Number of fine time scale points in hour
6. R*4 Averaged field magnitude $\frac{1}{N} \sum B_i$
7. R*4 Magnitude of average vector $(\bar{B}_x^2 + \bar{B}_y^2 + \bar{B}_z^2)^{\frac{1}{2}}$
8. R*4 Field latitude angle θ
9. R*4 Field longitude angle ϕ
10. R*4 Average field X component
11. R*4 Average field Y component
12. R*4 Average field Z component
13. R*4 Standard deviation for word 6
 $\sqrt{\bar{B}_x^2 + \bar{B}_y^2 + \bar{B}_z^2}$
14. R*4 Standard deviation for word 10
15. R*4 Standard deviation for word 11
16. R*4 Standard deviation for word 12

The units of field magnitudes, components, and standard deviations are gammas, and of the angles are degrees. The coordinate system for components and angles is solar ecliptic.

FATAR DETAIL REPORT

1...5...10.:15.:20.:25.:30.:35.:40.:45.:50.:55.:60.:65.:70.:75...80
 ((COLUMN GRID IS VALID ONLY FOR CHARACTER FORMATTED DATA;

BLOCK LENGTH/ MESSAGE/
NUMBER DISPLAY BLOCK TYPE

4	80	PRINT REQUESTED	cy 32.2 -1.6-26.9-17.794 5916 5.9 36. 120. 235se 4. 2.3 1.5 1.1 1.4 5.3j	
5	80	PRINT REQUESTED	cy 32.3 -0.8-26.9-17.894 5917 5.7 -5. 151. 235se 4. 1.7 0.6 1.1 1.1 5.4j	
* * * * *	*	END OF FILE	69 -- FILE CONTAINED 511 BLOCKS	
* * * * *	*	START FILE	70	
1	80	PRINT REQUESTED	cy 36.2 8.4 29.4 19.594 91 0 5.6 17. 116. 2se -2. 0.2 0.1 0.1 0.1 5.6j	
2	80	PRINT REQUESTED	cy 36.2 8.4 29.4 19.594 91 1 5.5 3. 125. 235se -2. 2.4 0.9 1.0 2.0 5.0j	
3	80	PRINT REQUESTED	cy 36.2 7.7 29.5 19.494 91 2 5.5 14. 149. 231se -5. 2.7 1.2 1.3 2.0 4.8j	
4	80	PRINT REQUESTED	cy 36.1 7.0 29.7 19.394 91 3 5.7 -10. 119. 222se -6. 1.7 1.3 0.8 0.8 5.4j	
5	80	PRINT REQUESTED	cy 36.1 6.3 29.9 19.194 91 4 5.9 -13. 133. 209se -7. 1.6 1.2 0.9 0.7 5.6j	
* * * * *	*	END OF FILE	70 -- FILE CONTAINED 511 BLOCKS	
* * * * *	*	START FILE	71	
1	80	PRINT REQUESTED	cn 31.8-14.7-23.5-15.69412112 22.3 -80. 25. 2se 22. 0.8 0.1 0.7 0.5 21.3j	
2	80	PRINT REQUESTED	cn 31.8-14.7-23.5-15.69412113 19.8 -74. 14. 226se 22. 11.7 4.5 5.1 9.5 16.2j	
3	80	PRINT REQUESTED	cn 31.9-14.1-24.0-15.49412114 21.2 -52. 21. 233se 24. 12.0 5.5 8.1 6.9 17.7j	
4	80	PRINT REQUESTED	cn 31.9-15.6-24.6-15.29412115 17.7 -60. 14. 227se 26. 13.5 3.8 8.3 10.0 13.9j	
5	80	PRINT REQUESTED	cn 32.0-12.9-25.1-15.09412116 14.3 10. 330. 222se 27. 6.7 2.1 2.7 5.7 12.5j	
* * * * *	*	END OF FILE	71 -- FILE CONTAINED 556 BLOCKS	
* * * * *	*	START FILE	72	
1	80	PRINT REQUESTED	cy 37.7 30.3 11.6 19.29415123 5.5 -8. 24. 6se 17. 1.1 0.4 0.5 0.9 5.3j	
2	80	PRINT REQUESTED	cy 37.7 30.3 11.6 19.294152 0 5.1 -1. 4. 227se 17. 3.0 1.2 1.8 2.0 4.2j	
-	3	80	PRINT REQUESTED	cy 37.6 30.0 12.2 19.094152 1 5.0 9. 339. 230se 15. 2.9 0.8 1.5 2.4 3.9j
4	80	PRINT REQUESTED	cy 37.5 29.8 12.8 18.894152 2 5.1 3. 329. 235se 13. 2.5 0.9 1.1 2.0 4.4j	
5	80	PRINT REQUESTED	cy 37.4 29.5 13.4 18. 694 ⁴⁵² 3 5.0 -38. 310. 204se 11. 2.7 1.1 1.3 2.0 4.2j	
* * * * *	*	END OF FILE	73 -- FILE CONTAINED 514 BLOCKS	
* * * * *	*	START FILE	73	
* * * * *	*	END OF FILE	73 -- FILE CONTAINED 0 BLOCKS	

Year 94 Oct 15'2

) From: NCFMRB::OPERATOR 19-DEC-1996 07:40:35.82
To: NCF::ALOPEZ
CC:
Subj: dd108653 ascii listing

)) FILE 1 RECORD 1 80 BYTES
cy 39.3 3.8 35.6 16.295 1 1 2.8 -20. 112. 233se-29. 1.4 0.3 0.6 1.2 2.5j
cn 31.1-18.4-21.6-12.795 3121 13.9 48. 249. 116se-12. 5.4 4.0 1.8 3.2 12.7j

)) ASCII LIST OF DD108653

)) FILE 1 RECORD 584 80 BYTES
cn 31.0-16.2-22.6-13.695 32 0 7.0 33. 287. 21se-21. 6.0 3.0 3.8 3.5 4.9j
cy 34.2 31.6-13.0 -0.295 5923 7.8 27. 330. 232se -8. 5.0 3.9 0.9 3.0 6.0j

)) ASCII LIST OF DD108653

)) FILE 2 RECORD 1 80 BYTES
cn 31.0-16.2-22.6-13.695 32 0 7.0 33. 287. 21se-21. 6.0 3.0 3.8 3.5 4.9j
cy 34.2 31.6-13.0 -0.295 5922 8.1 46. 271. 2se -8. 9.4 9.3 0.8 0.6 4.5j

)) ASCII LIST OF DD108653

)) FILE 3 RECORD 1 80 BYTES
cy 34.2 31.6-13.0 -0.295 5922 8.1 46. 271. 2se -8. 9.4 9.3 0.8 0.6 4.5j

)
ASCII LIST OF DD108653

)
FILE 3 RECORD 568 80 BYTES
en 34.9-13.1 31.9 5.095 9022 7.1 -48. 125. 166se 6. 6.7 4.3 2.8 4.4 3.1j

)
ASCII LIST OF DD108653

)
FILE 4 RECORD 1 80 BYTES
cy 34.6-14.1 31.3 4.195 9023 7.2 -11. 140. 35e 0. 0.4 0.1 0.2 0.3 7.1j

)
ASCII LIST OF DD108653

)
FILE 4 RECORD 461 80 BYTES
cy 37.4 16.2-32.3 9.49512016 4.6 47. 145. 232se 26. 3.3 1.9 2.5 1.0 3.2j

)
ASCII LIST OF DD108653

)
FILE 5 RECORD 1 80 BYTES
cy 38.5 21.0-29.6 12.9951211 4.9 5. 125. 235e 6. 0.4 0.2 0.2 0.3 4.8j

)
ASCII LIST OF DD108653

)
FILE 5 RECORD 529 80 BYTES
cy 33.7 8.6 31.9 -6.29515123 5.7 -25. 312. 235se 20. 3.3 1.1 2.6 1.7 4.6j

) ASCII LIST OF DD108653

) FILE 6 RECORD 1 80 BYTES
cy 33.7 8.6 31.9 -6.29515122 5.6 21. 325. 5se 20. 1.2 0.6 0.9 0.5 5.4j

) ASCII LIST OF DD108653

) FILE 6 RECORD 450 80 BYTES
cn 36.5-14.4-30.5 13.99518123 20.3 -38. 226. 235se 22. 7.0 3.7 3.7 4.6 20.1j

) ASCII LIST OF DD108653

) FILE 7 RECORD 1 80 BYTES
cn 36.5-14.2-30.6 14.09518123 17.2 -36. 226. 122se 20. 8.3 4.6 4.4 5.4 16.9j

) ASCII LIST OF DD108653

) FILE 7 RECORD 446 80 BYTES
cy 29.9 23.7 14.7-10.99521222 4.7 -26. 108. 215se 20. 4.0 1.8 2.2 2.8 3.3j

) ASCII LIST OF DD108653

) FILE 8 RECORD 1 80 BYTES
cy 29.7 22.4 15.6-11.59521223 6.6 3. 97. 8se 14. 0.3 0.2 0.2 0.2 6.6j

)
ASCII LIST OF DD108653

)
FILE 8 RECORD 577 80 BYTES
c n 40.2-22.7-24.2 22.69524323 9.6 -13. 46. 217se 7. 7.1 3.8 3.6 4.8 6.4j

)
ASCII LIST OF DD108653

)
FILE 9 RECORD 1 80 BYTES
c n 40.2-22.5-24.4 22.69524323 9.0 -17. 35. 107se 6. 4.9 2.4 2.7 3.3 7.6j

)
ASCII LIST OF DD108653

)
FILE 9 RECORD 581 80 BYTES
c y 32.2 26.2-13.8-12.79527317 4.5 3. 324. 235se 9. 1.6 0.6 0.7 1.3 4.1j

)
ASCII LIST OF DD108653

)
FILE 10 RECORD 1 80 BYTES
c y 30.6 25.6 1.6-16.89527412 3.7 9. 305. 101se 3. 1.3 0.6 1.0 0.6 3.4j

)
ASCII LIST OF DD108653

)
FILE 10 RECORD 514 80 BYTES
c n 41.5-34.2 1.0 23.59530423 12.1 2. 119. 229se-16. 7.2 5.3 4.6 1.8 9.7j

) ASCII LIST OF DD108653

) FILE 11 RECORD 1 80 BYTES
cn 41.5-34.2 1.0 23.59530422 11.1 0. 118. 125e-16. 2.4 0.9 1.8 1.2 10.9j

) ASCII LIST OF DD108653

) FILE 11 RECORD 519 80 BYTES
cy 28.6 18.8-14.2-16.39533423 2.5 1. 171. 234se-23. 1.6 1.4 0.7 0.5 1.8j

) ASCII LIST OF DD108653

) FILE 12 RECORD 1 80 BYTES
cy 28.6 18.8-14.2-16.39533422 2.4 -17. 40. 14se-23. 0.2 0.1 0.1 0.1 2.4j

) ASCII LIST OF DD108653

) FILE 12 RECORD 578 80 BYTES
cn 39.5-20.5 26.1 21.49536522 12.3 51. 272. 98se-21. 8.2 3.6 6.6 3.2 9.7j

) ASCII LIST OF DD108653

) FILE 13 RECORD 1 80 BYTES
cn 39.5-21.5 25.5 21.196 1 0 12.6 55. 254. 230se-27. 4.3 3.4 2.1 1.7 11.8j

) ASCII LIST OF DD108653

) FILE 13 RECORD 572 80 BYTES
cy 29.1 11.2-23.5-13.096 3121 4.2 11. 207. 150se-12. 1.2 0.5 0.5 0.9 4.1j

) ASCII LIST OF DD108653

) FILE 14 RECORD 1 80 BYTES
cy 29.2 13.8-22.8-11.896 32 0 4.2 17. 213. 96se-22. 0.9 0.5 0.6 0.4 4.1j

) ASCII LIST OF DD108653

) FILE 14 RECORD 624 80 BYTES
cy 41.0 19.5 27.5 23.396 6023 3.8 13. 316. 235se -8. 0.9 0.5 0.5 0.6 3.7j

) ASCII LIST OF DD108653

) FILE 15 RECORD 1 80 BYTES
cy 41.0 18.6 28.2 23.196 61 1 3.7 2. 308. 207se-14. 0.9 0.6 0.6 0.5 3.6j

) ASCII LIST OF DD108653

) FILE 15 RECORD 659 80 BYTES
cn 31.0-17.1-22.0-13.696 92 0 12.4 -22. 195. 118se 0. 7.5 6.1 2.0 4.0 10.2j

) ASCII LIST OF DD108653

) FILE 16 RECORD 1 80 BYTES
cn 31.0-17.1-22.0-13.696 9123 11.2 -20. 177. 13se 1. 3.8 3.2 1.6 1.2 10.3j

) ASCII LIST OF DD108653

) FILE 16 RECORD 642 80 BYTES
cy 39.1 32.3 -3.1 21.89612122 6.0 25. 346. 235se 16. 1.2 0.7 0.8 0.6 5.8j

) ASCII LIST OF DD108653

) FILE 17 RECORD 1 80 BYTES
cy 39.2 32.9 -0.5 21.396122 2 4.4 -44. 161. 4se 5. 4.1 3.5 2.2 0.1 2.5j

) ASCII LIST OF DD108653

) FILE 17 RECORD 637 80 BYTES
cn 28.7-23.3 8.9-14.39615223 17.1 -8. 169. 223se 20. 2.4 1.5 1.9 0.2 16.9j

) ASCII LIST OF DD108653

) FILE 18 RECORD 1 80 BYTES
cn 28.7-24.6 6.5-13.396153 2 16.9 -10. 116. 3se 12. 3.3 3.0 1.5 0.1 16.7j

) ASCII LIST OF DD108653

FILE 18 RECORD 531 80 BYTES

cY 40.3 21.2-27.4 20.69618219 4.7 24. 340. 225se 33. 1.3 0.8 0.6 0.9 4.6j

) ASCII LIST OF DD108653

FILE 19 RECORD 1 80 BYTES

cY 40.2 25.2-25.0 18.896183 2 4.1 -22. 304. 45e 12. 0.3 0.2 0.1 0.1 4.1j

) ASCII LIST OF DD108653

FILE 19 RECORD 488 80 BYTES

cn 32.2-12.2 26.9-12.79621322 11.0 -26. 153. 235se 20. 8.5 3.6 4.3 6.4 7.0j